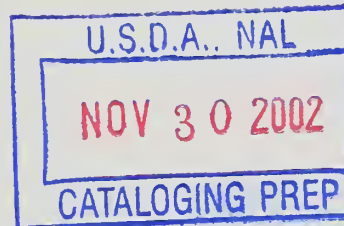
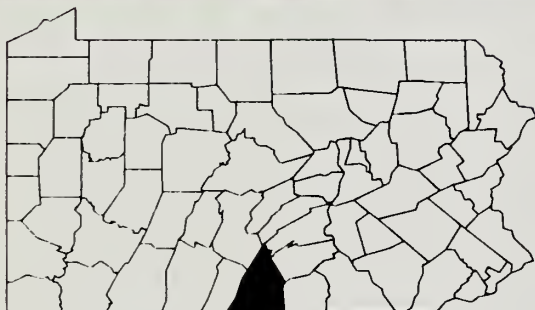


Historic, Archive Document

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AMERICAN FARMLAND TRUST TIMBER BRIDGE, Franklin County, Pennsylvania

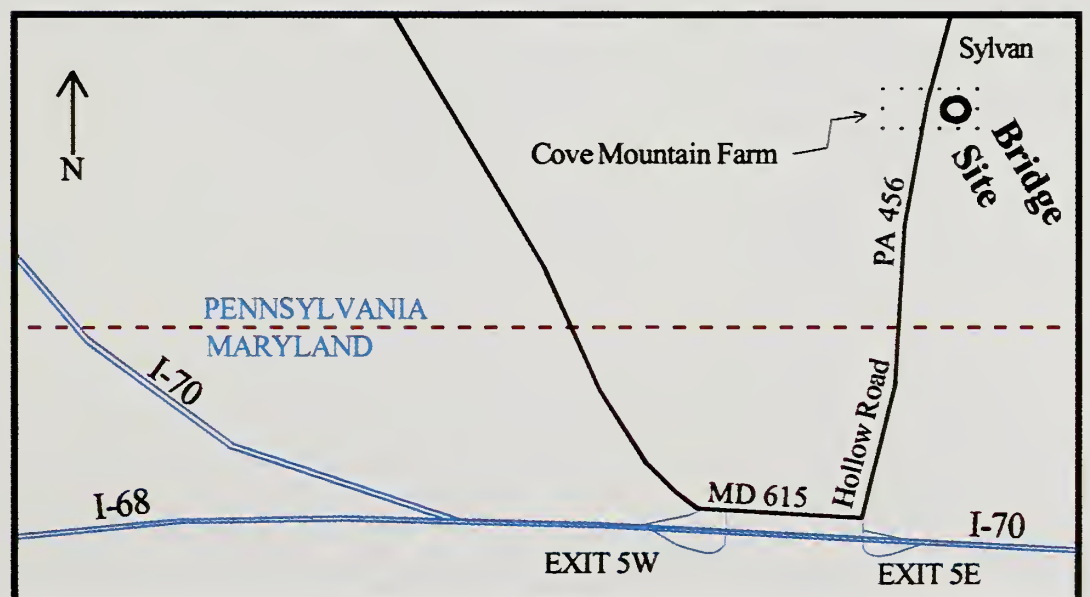
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Type: Glued-laminated timber stringers and transverse
glued-laminated deck
County: Franklin
Owner: American Farmland Trust
Engineer: Merv Eriksson
Spans over: Little Cove Creek
Bridge length: 40'-0"
Bridge width: 12'-0"

Directions: From the east, leave I-70 at Exit 5E. Turn left onto MD 615 go .5 miles to the intersection of MD 615 and Hollow Road. Turn right onto Hollow Road and follow to the Pennsylvania state line. Hollow Road becomes PA 456. From the state line go approximately 3 miles to Cove Mountain Farm. The bridge site is on the right.

From the west, leave I-70 at Exit 5W. Turn right onto MD 615 and go approximately 2 miles to the intersection of MD 615 and Hollow Road. Turn left onto Hollow Road and follow to the Pennsylvania state line. Hollow Road becomes PA 456. From the state line go approximately 3 miles to Cove Mountain Farm. The bridge site is on the right.



USDA Forest Service

The National Wood In
Transportation Program





1022590446

WIT-15-0027

GEOMETRY

Number of Spans: 1
 Out-to-out length: 40'-0"
 Center-of-bearing span lengths: 39'-0"
 Skew: 0 degrees
 Number of lanes: 1
 Out-to-out width: 12'-0"
 Number of beams and spacing: 3 @ 4'
 Superstructure square footage: 480

Design load: H-10
 Averaged daily traffic: 200 cows/2 tractors
 Design by: Merv Eriksson
 Abutment material: Rock filled gabion
 baskets

Total wood quantity: 3980 board feet (bf)
 Total project cost: \$26,000
 Total superstructure cost: \$20,000
 Total superstructure cost /sq ft: \$41.67

MATERIAL**DECK**

Material: Wood
 Grade: Structural #2
 Species: Southern pine
 Panel sizes: 3 1/8" x 4'-0" x 12'-0" (150 bf/panel)
 Quantity: 10
 Drying method: Kiln
 Preservative treatment: Creosote
 Specification: 12 pounds per cubic feet (pcf)

BEAMS/STRINGERS

Material: Wood
 Grade: Select structural/industrial grade
 Species: Southern pine/red maple
 Sizes used: 5 1/8" x 26 1/8" x 40'-0" (446 bf/beam)
 Quantity: 3
 Drying method: Kiln
 Preservative method: Creosote
 Specification: 12 pcf

GUIDERAIL POSTS (none)**GUIDERAIL CURB**

Material: Wood
 Grade: Structural #2
 Species: Southern pine
 Size: 6 3/4" x 7 1/2" x 40'-0" (168.75 bf/curb)
 Quantity: 2
 Preservative treatment: Creosote
 Specification: 12 pcf

GUIDERAIL BLOCKING

Material: Wood
 Grade: Structural #2
 Species: Southern pine
 Size: 6 3/4" x 10" x 2'-0" (11.25 bf/block)
 Quantity: 10
 Preservative treatment: Creosote
 Specification: 12 pcf

LOCAL IMPACT: Improves efficiency of dairy farm, particularly when stream is flooding, allowing cows to cross stream from pasturing fields to milking parlor.

BRIDGE PERFORMANCE: The bridge has been in place for one year. It is performing as expected.

FUNDING SOURCES: American Farmland Trust

LOCAL CONTACT: Bryan Petrucci
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Information provided by Bryan Petrucci, American Farmland Trust, and Ed Cesa, USDA Forest Service.

May 2000



Northeastern Area
 State and Private Forestry

